

FIG. 1

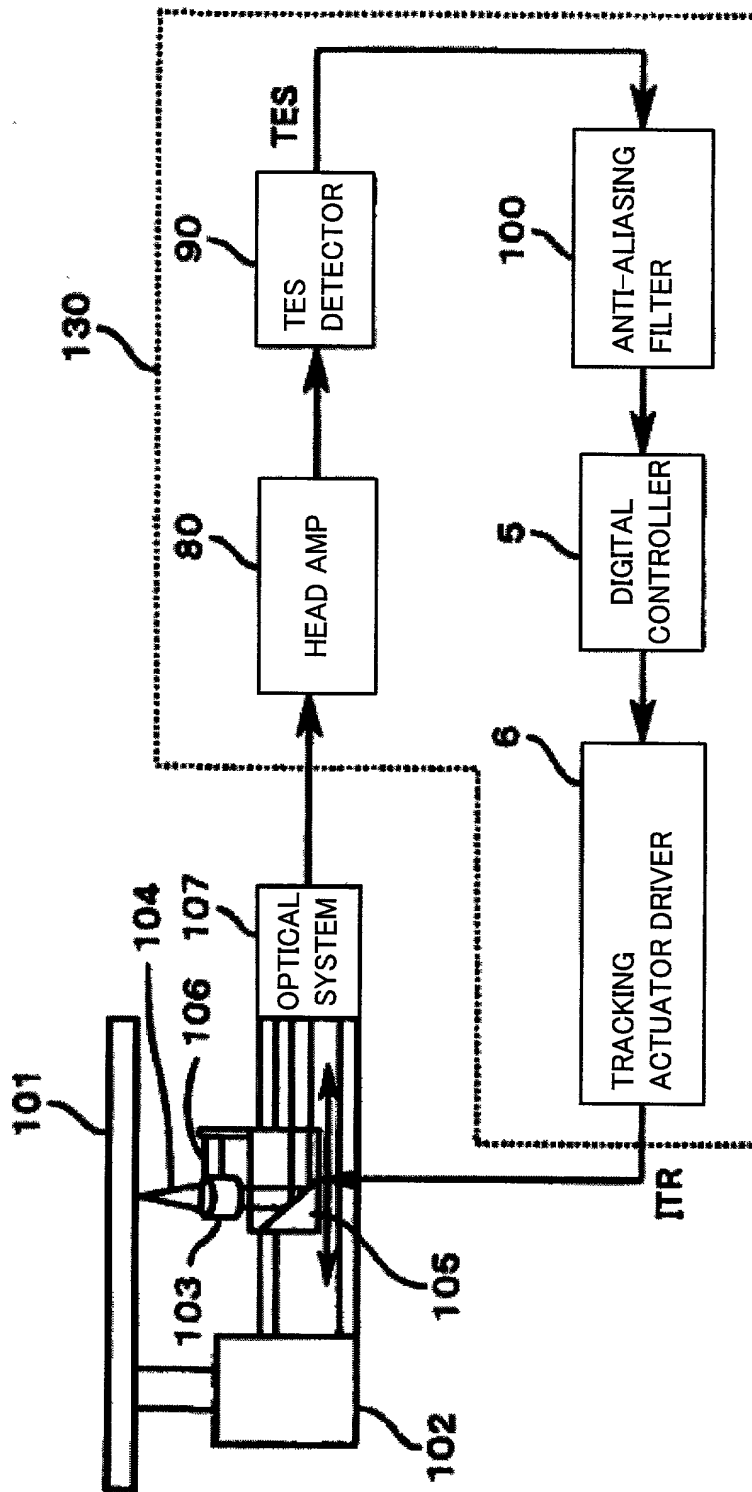


FIG. 2A

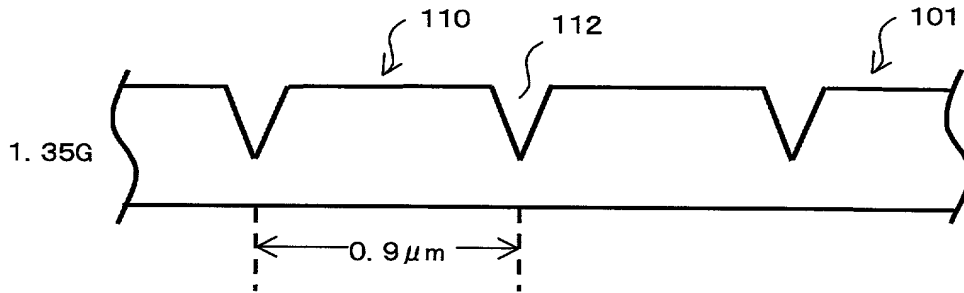


FIG. 2B

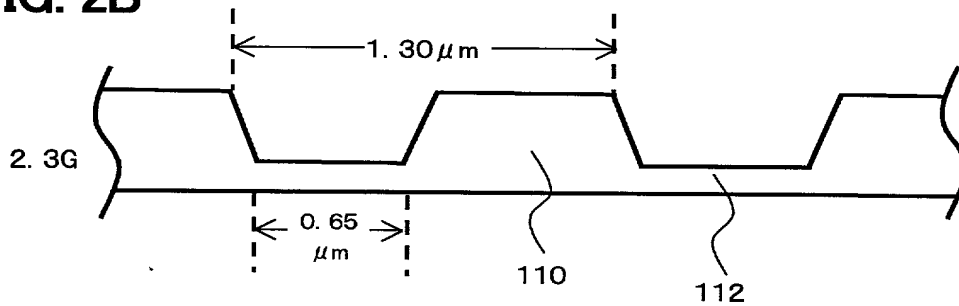
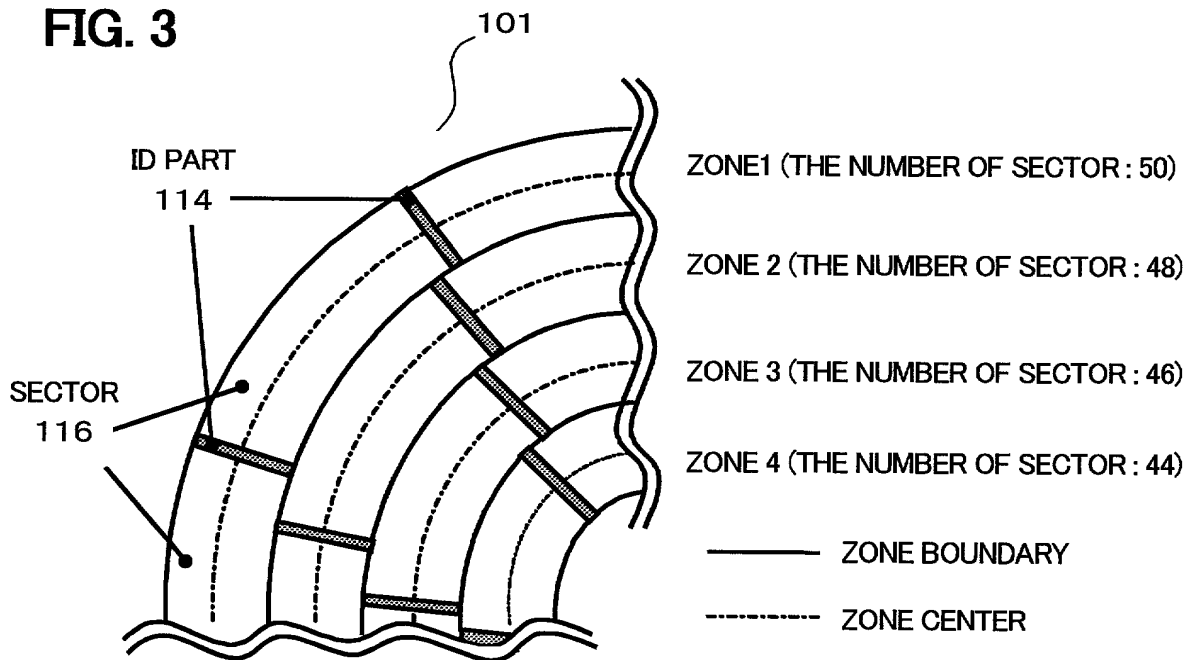
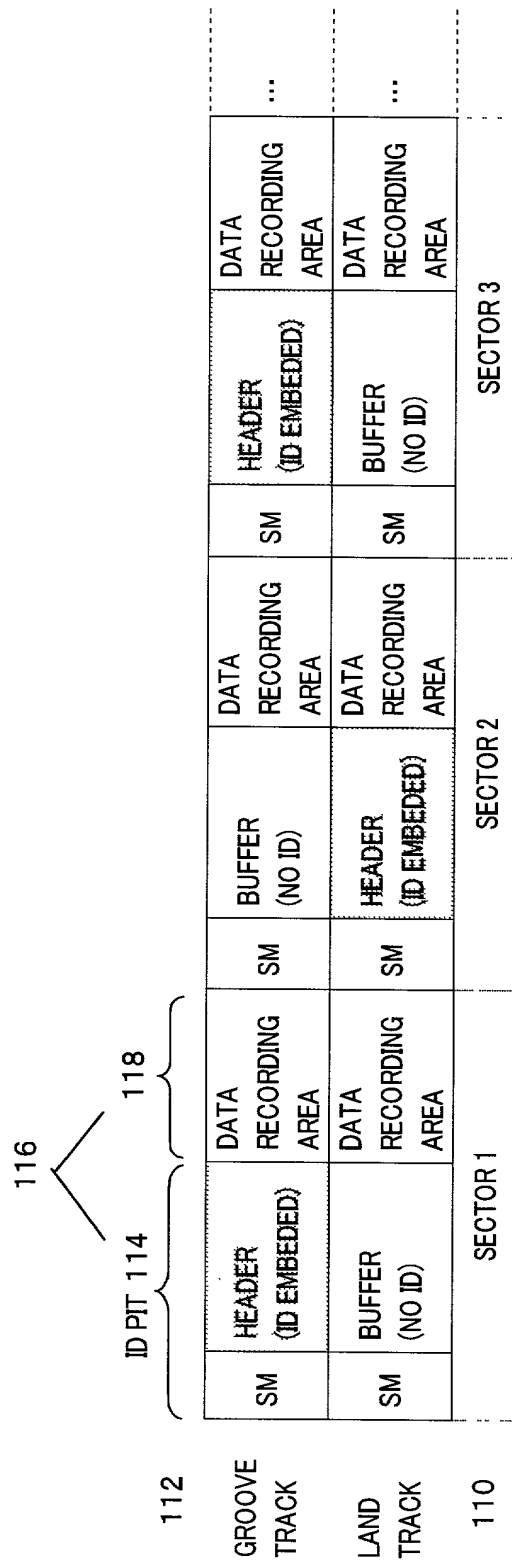


FIG. 3



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FIG. 4



A schematic diagram of an optical system, likely a laser-based measurement or processing tool. The diagram shows a large, irregularly shaped area labeled 101, which is divided into three distinct regions: ZONE 1, ZONE 2, and ZONE 3. An 'OPTICAL BEAM' is shown entering from the top right and passing through ZONE 1 and ZONE 2. Three elongated, rectangular components, labeled 114, are positioned across the zones. Each component 114 has a series of small circles (possibly emitters or detectors) along its length and is flanked by hatched, semi-circular regions labeled 140. The components 114 are arranged in a way that they span across the boundaries of the zones. The overall layout suggests a system designed for sequential or simultaneous processing or measurement across different spatial zones.

FIG. 6A

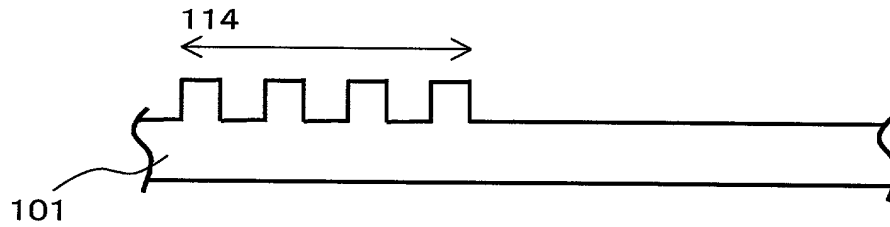


FIG. 6B

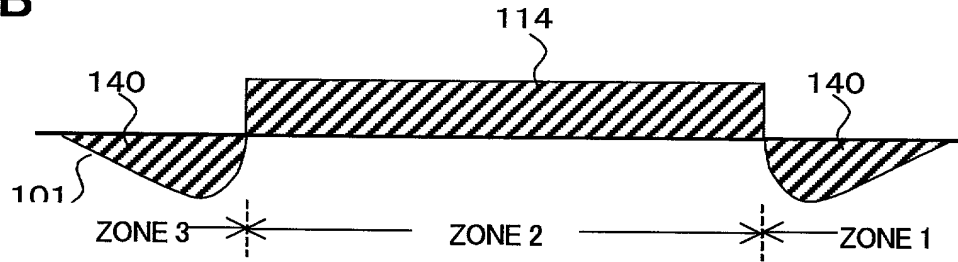
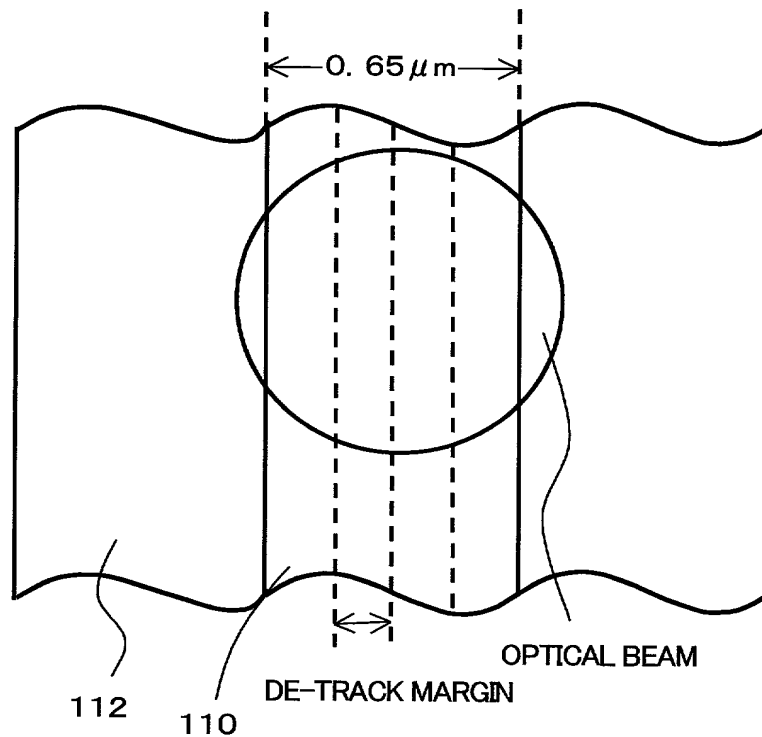


FIG. 7



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FIG. 8

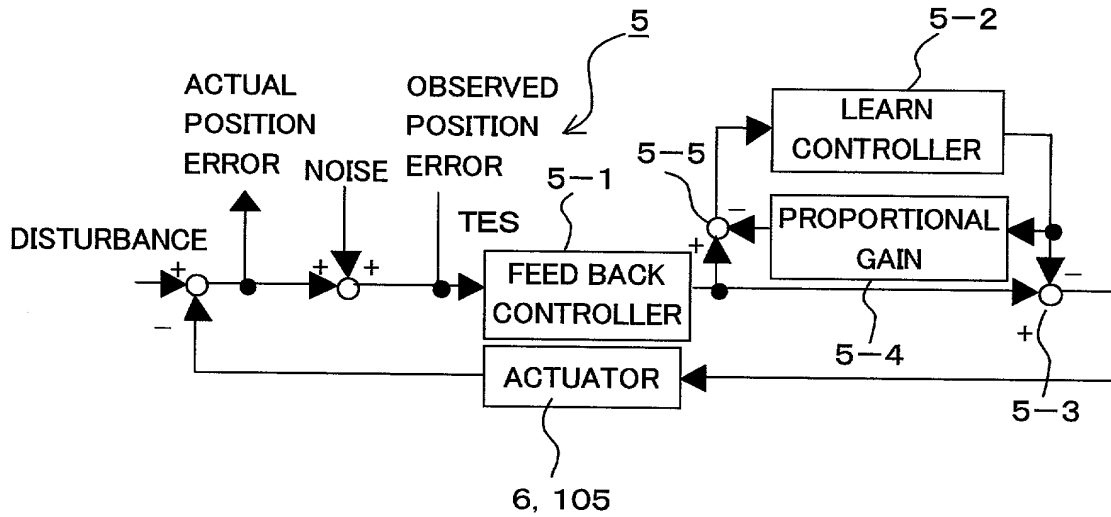


FIG. 9

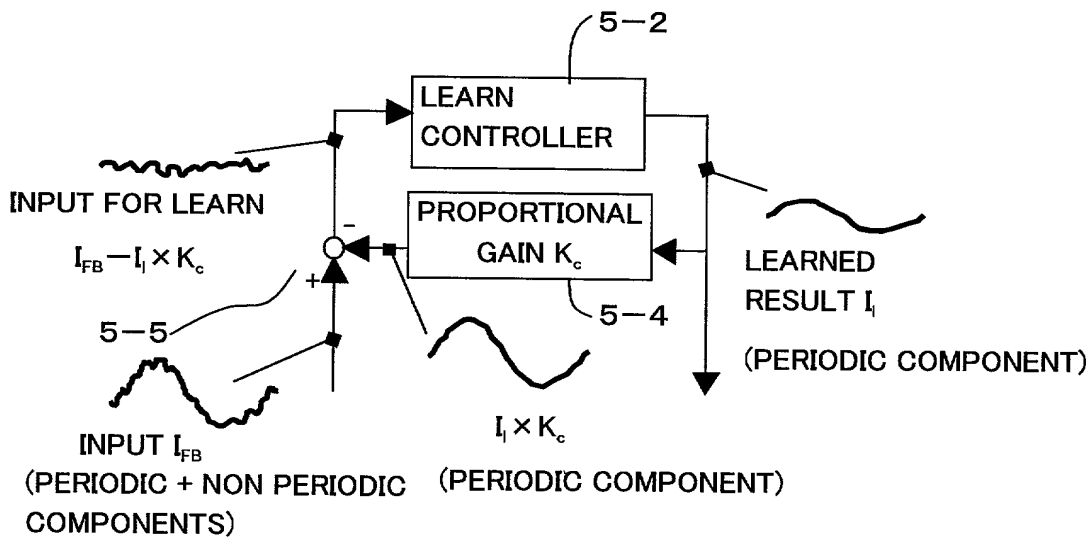


FIG. 10

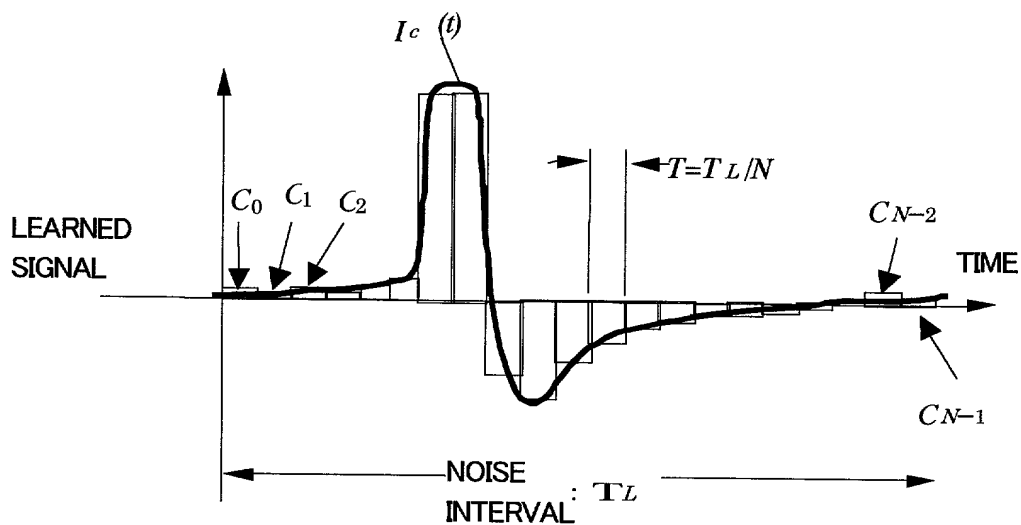


FIG. 11

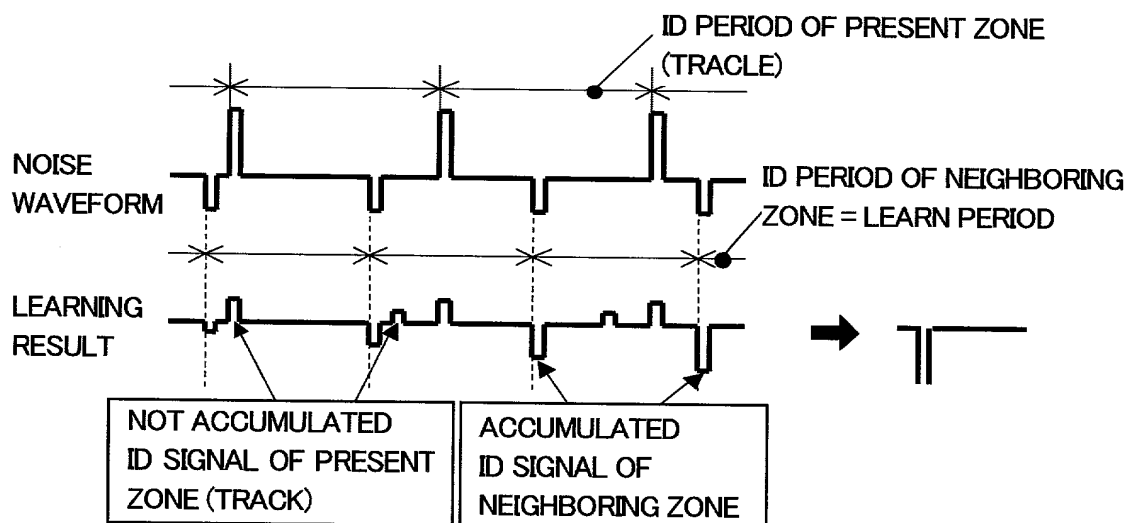


FIG. 12

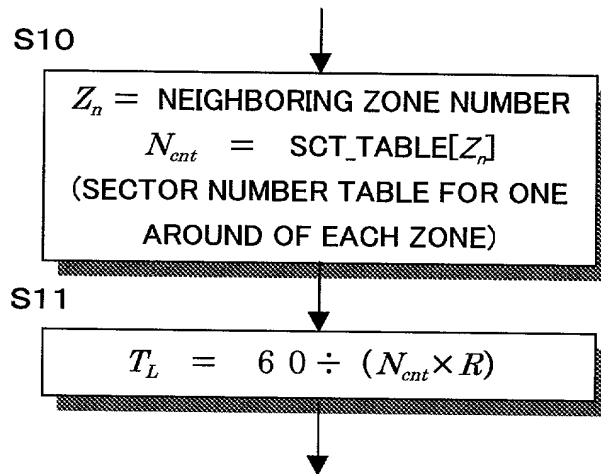
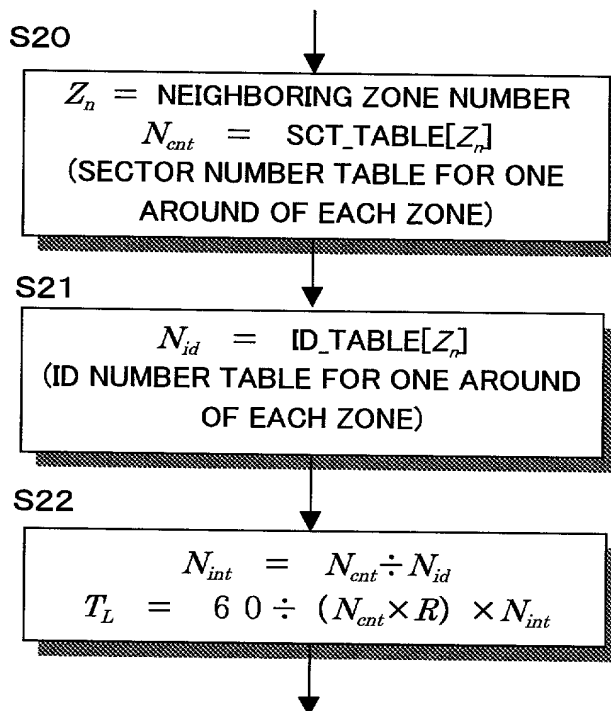


FIG. 13



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FIG. 14

LEARN CONTROLLER 5-2

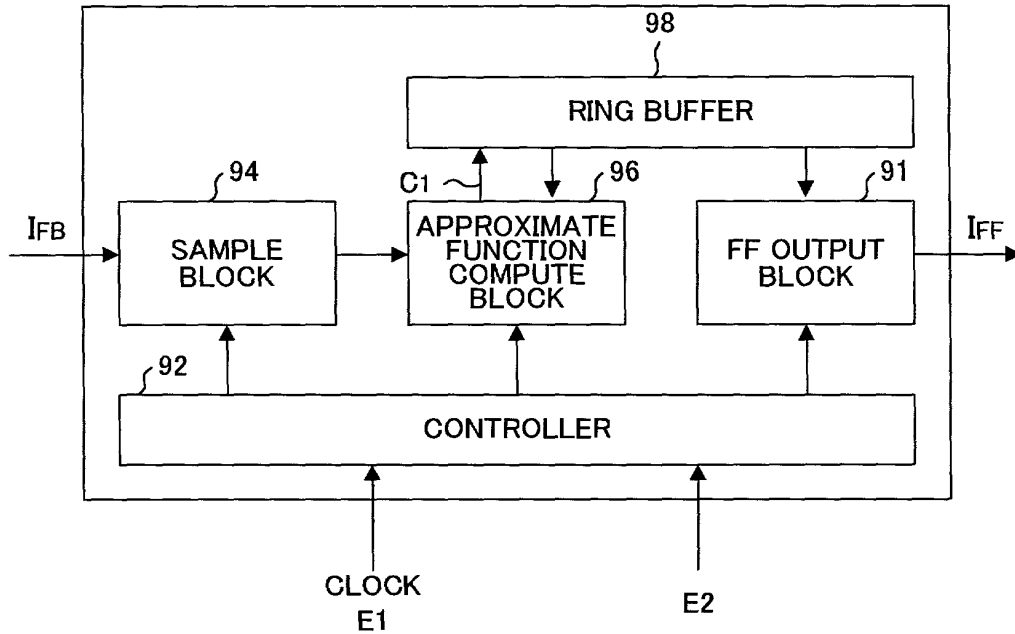
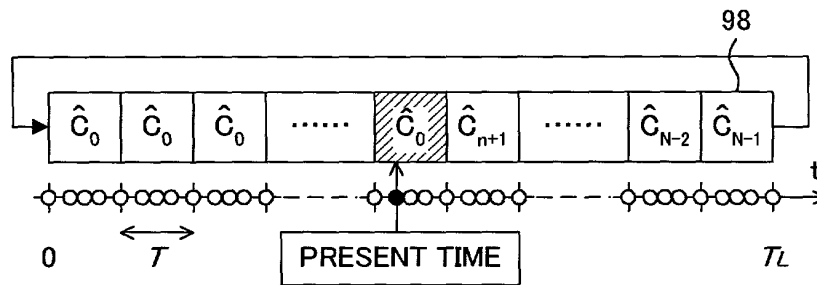


FIG. 15



$$i_u = \text{floor}\left(\frac{t}{T}\right)$$

$$\hat{C}_{iu}(N) = \hat{C}_{iu}(L) + K_I \cdot T_s \cdot I_{FB}$$

FIG. 16

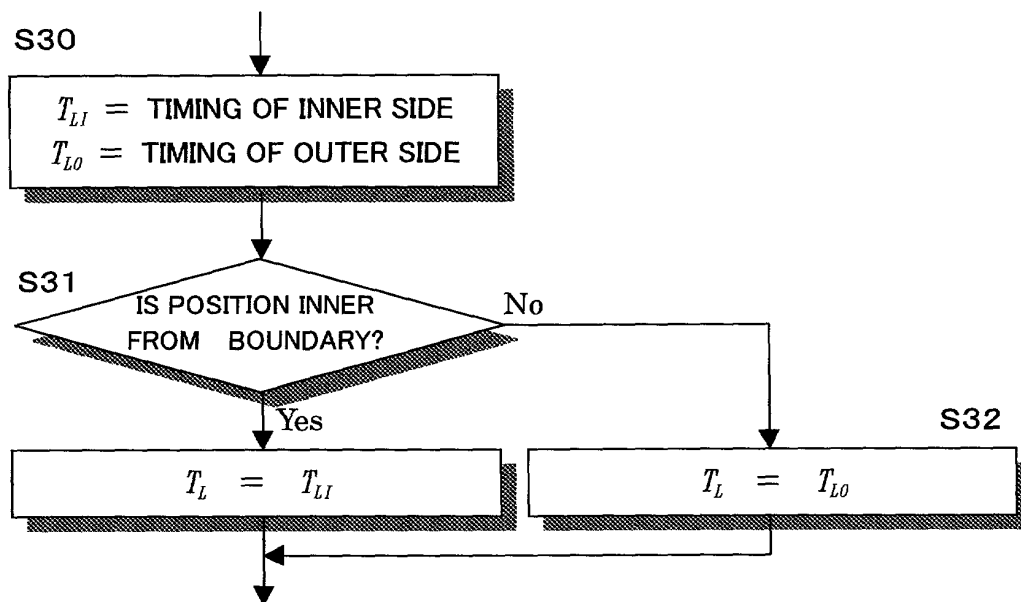


FIG. 17

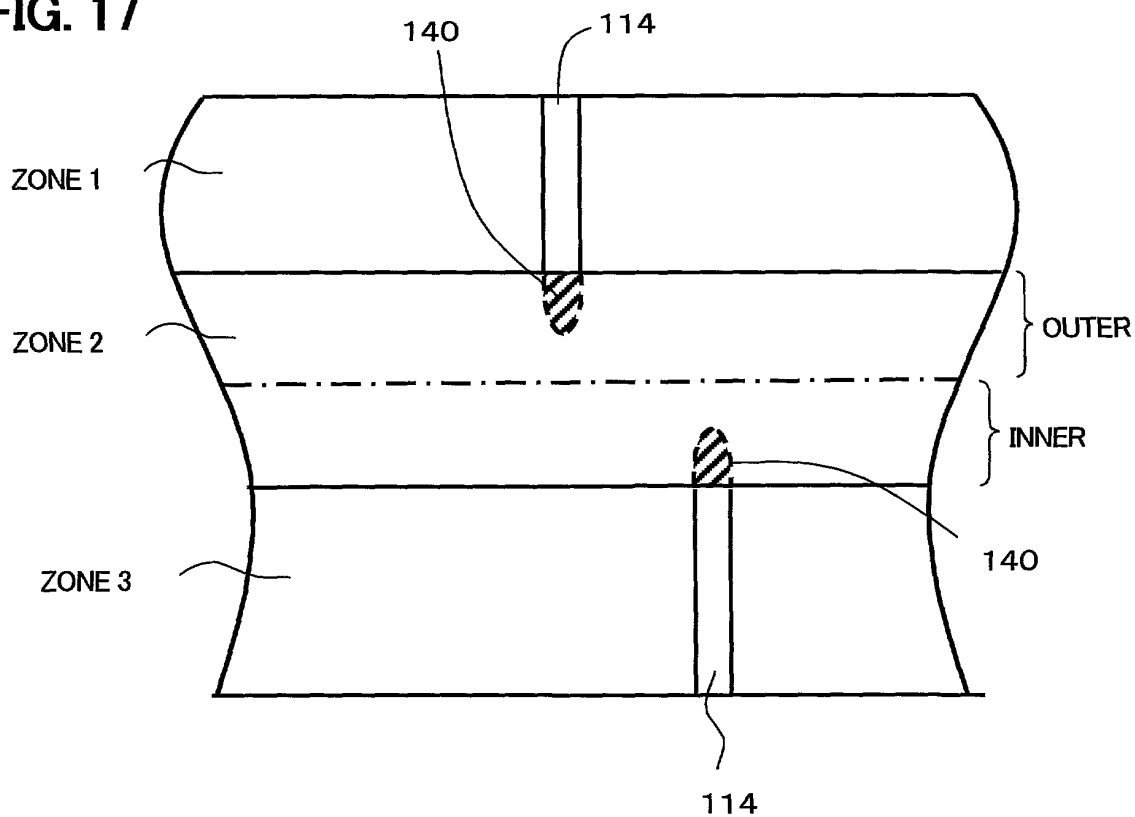
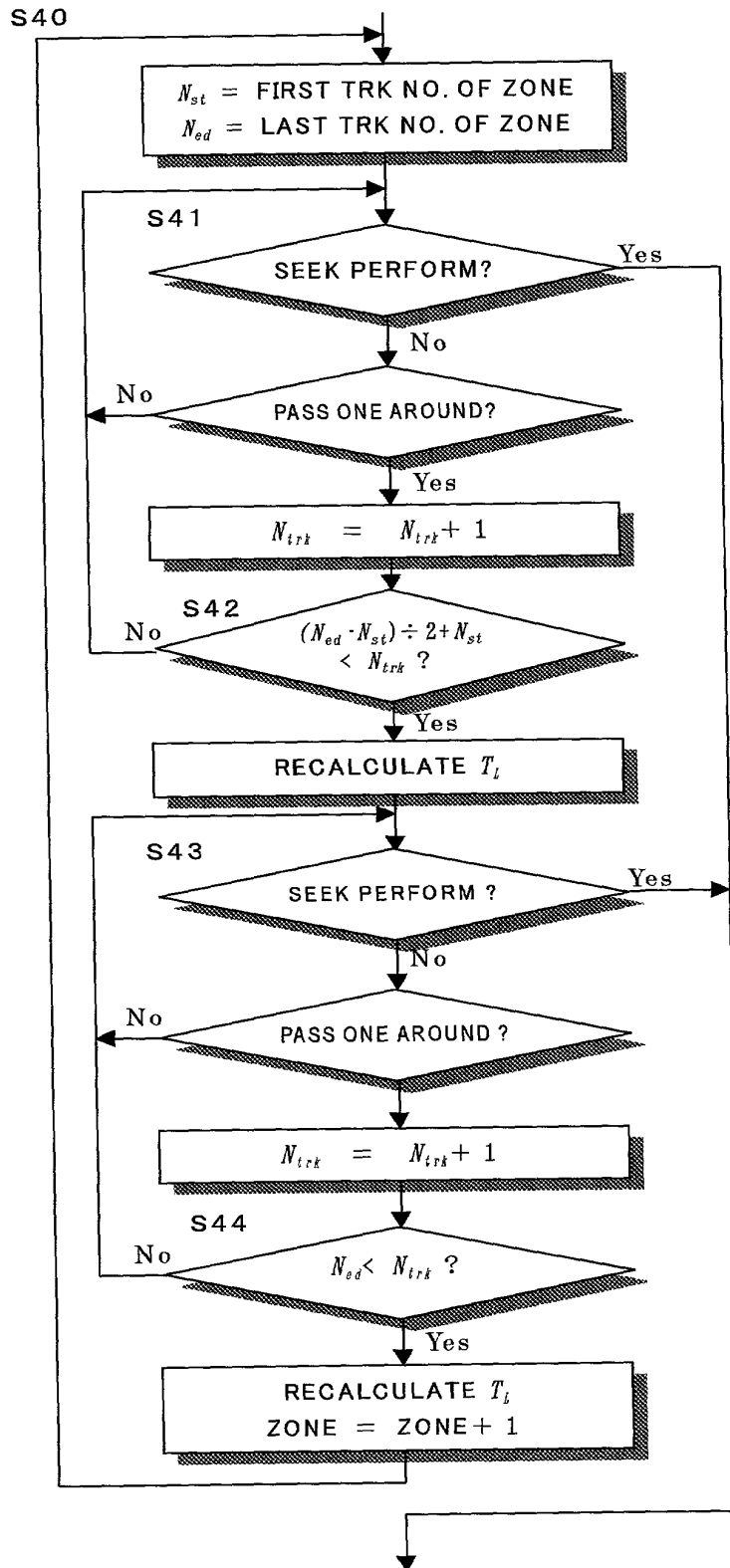
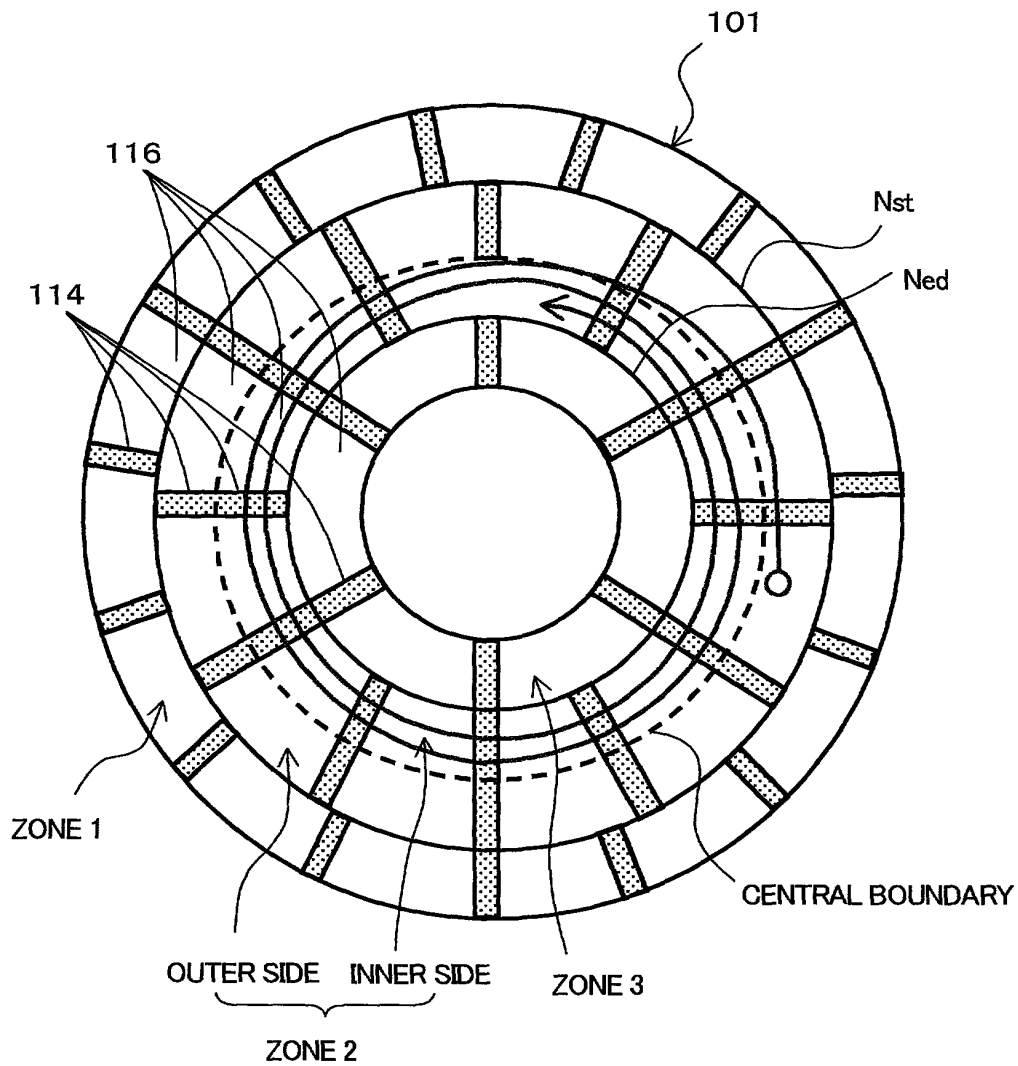


FIG. 18



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FIG. 19



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FIG. 20

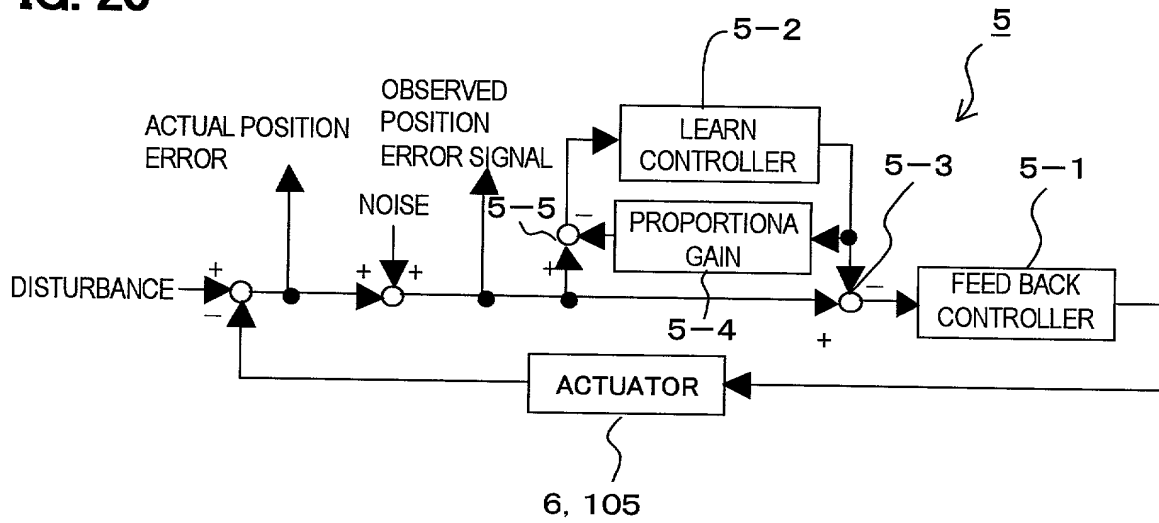
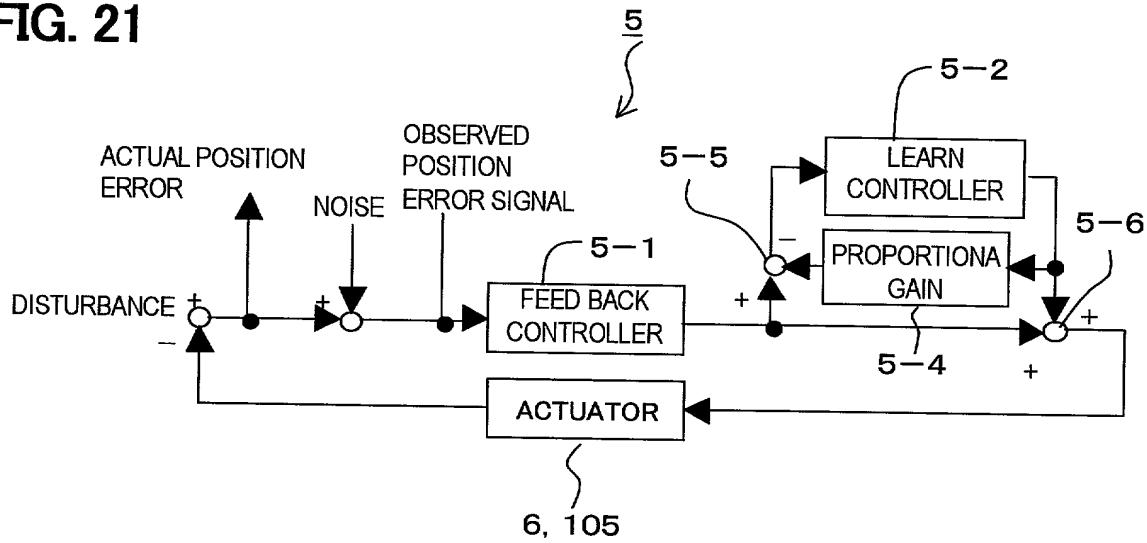


FIG. 21



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FIG. 22

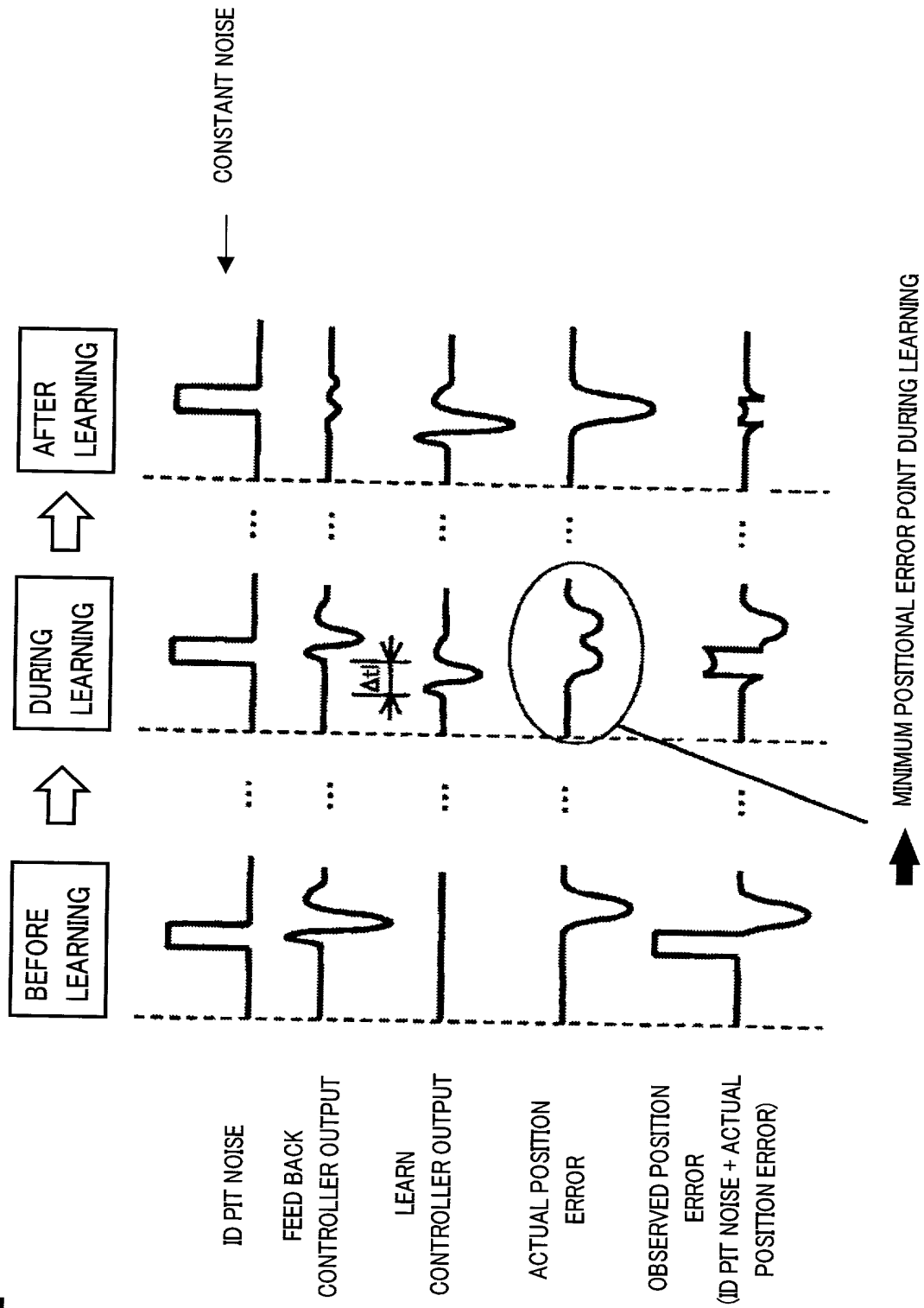
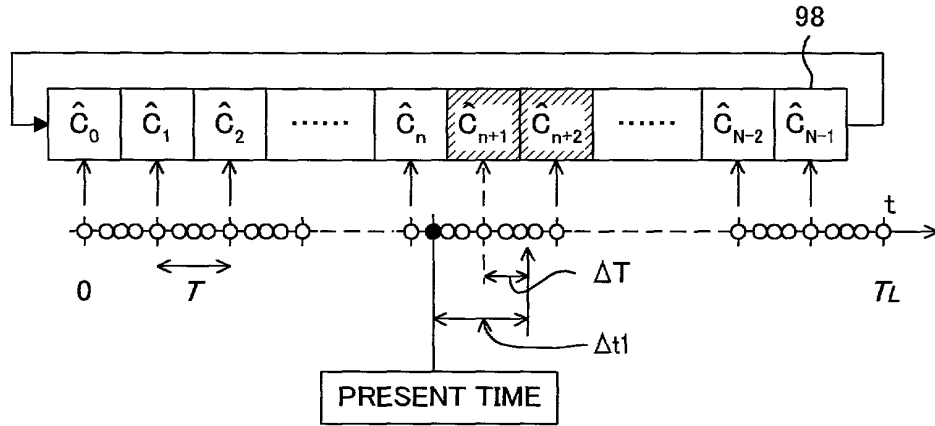


FIG. 23



$$io = \text{floor} \left(\frac{t + \Delta t_1}{T} \right)$$

IF $io \leq N-2$ then $io1=io, io2=io1+1$

IF $io = N-1$ then $io1=N-1, io2=0$

IF $io \geq N$ then $io1=io-N, io2=io1+1$

$$1_{FF}(\Delta T) = \hat{C}_{io1} + \frac{\hat{C}_{io2} - \hat{C}_{io1}}{T} = \Delta T$$

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FIG. 24

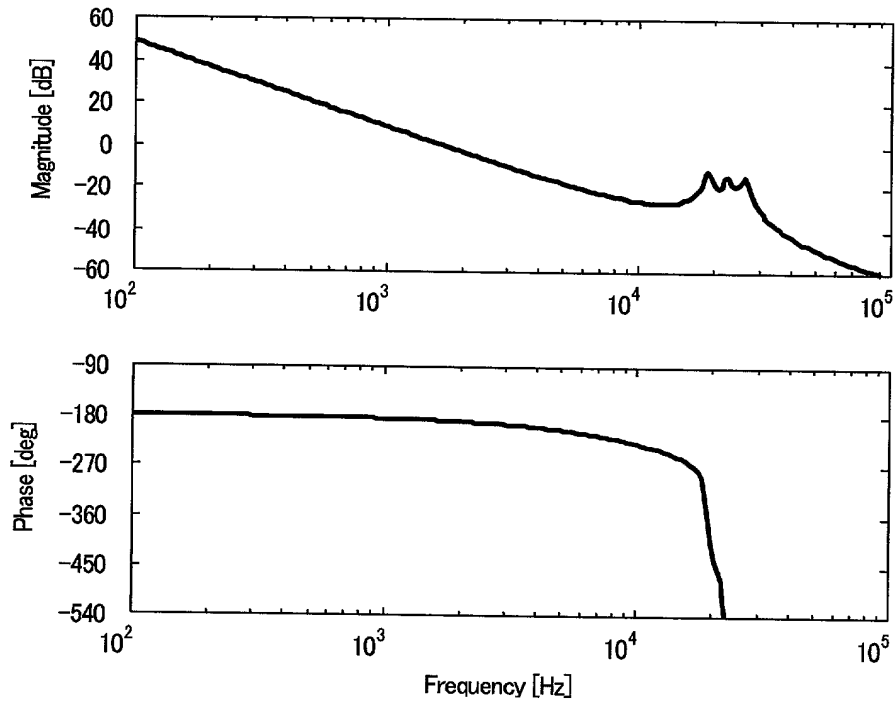


FIG. 25

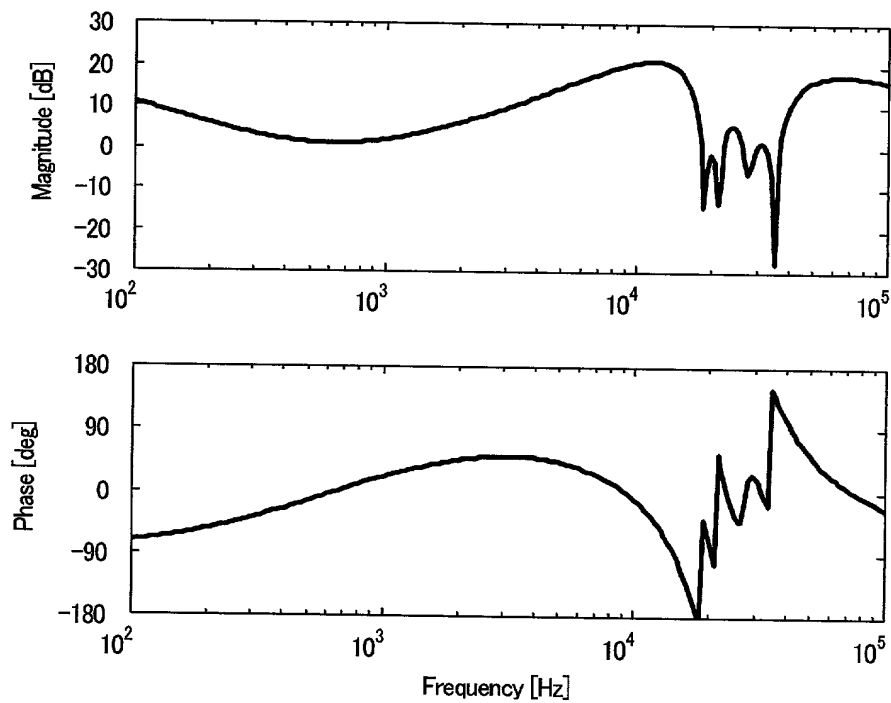


FIG. 26

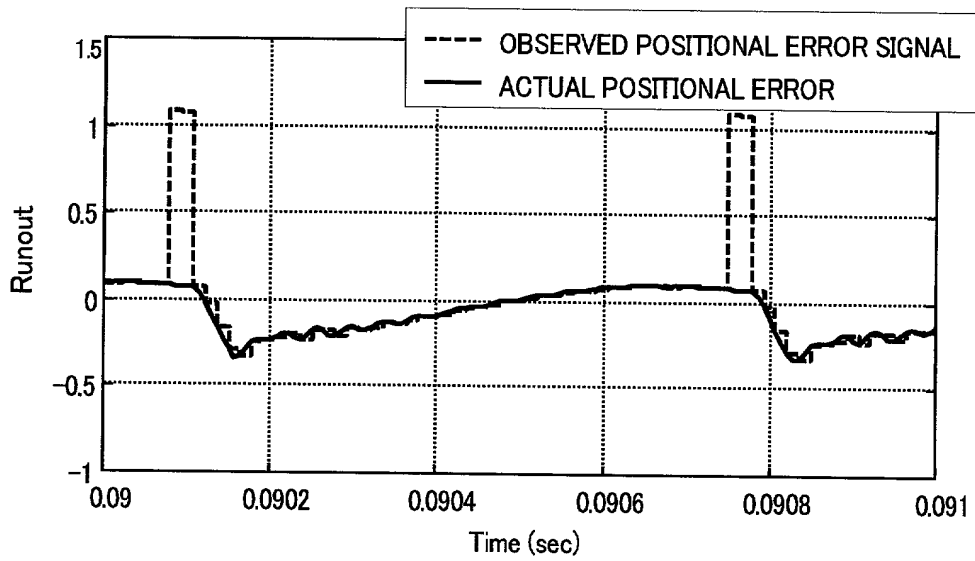
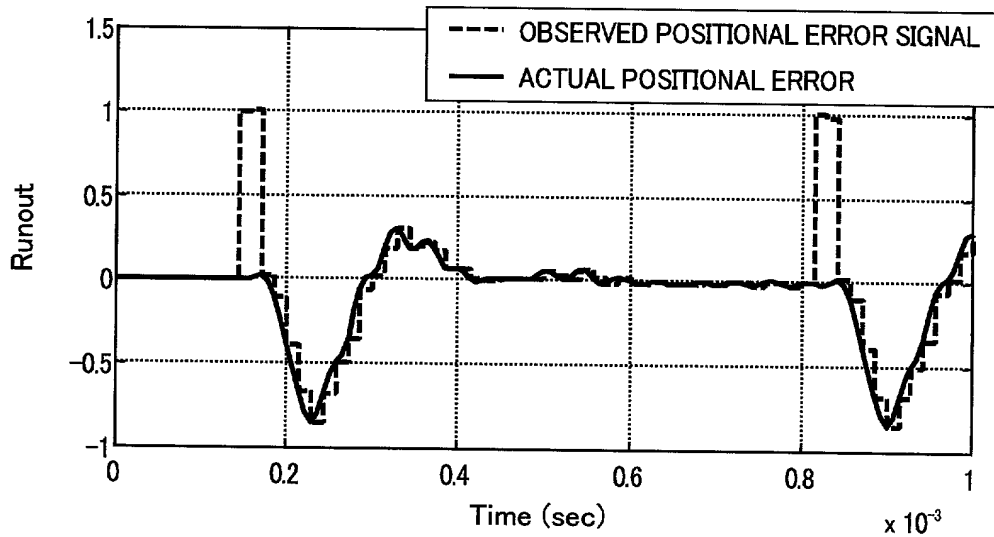


FIG. 27



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FIG. 28

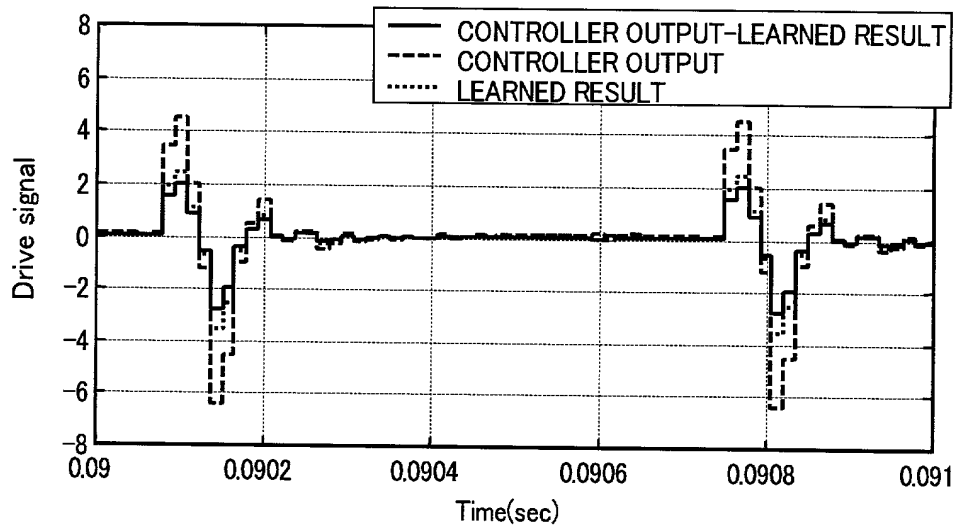


FIG. 29

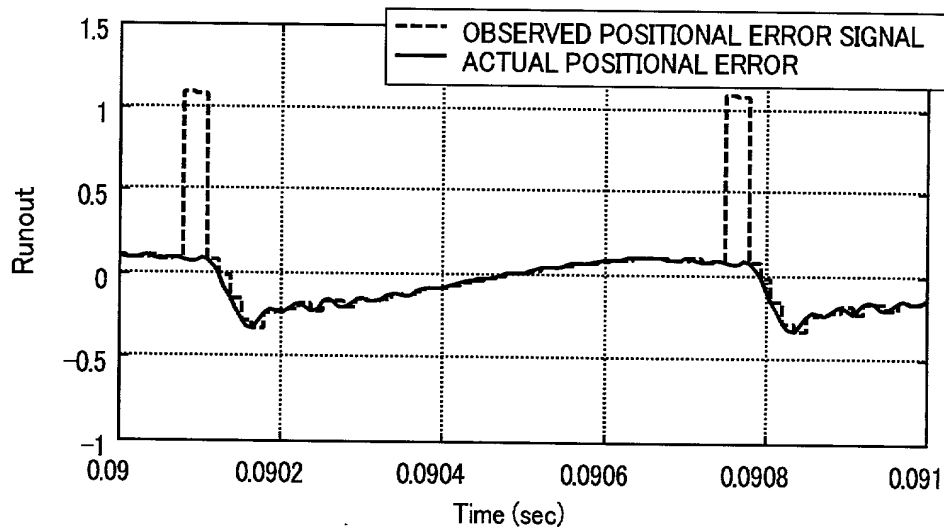


FIG. 30

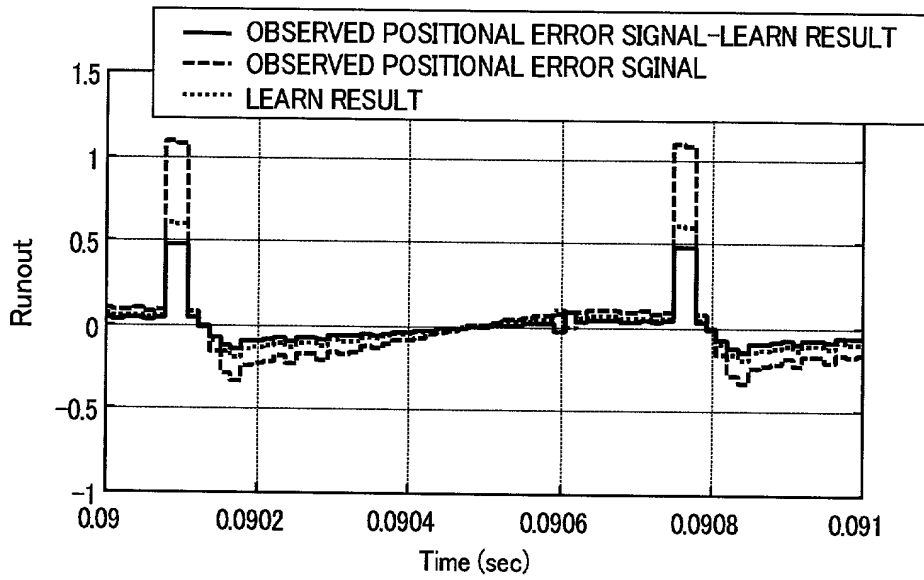


FIG. 31

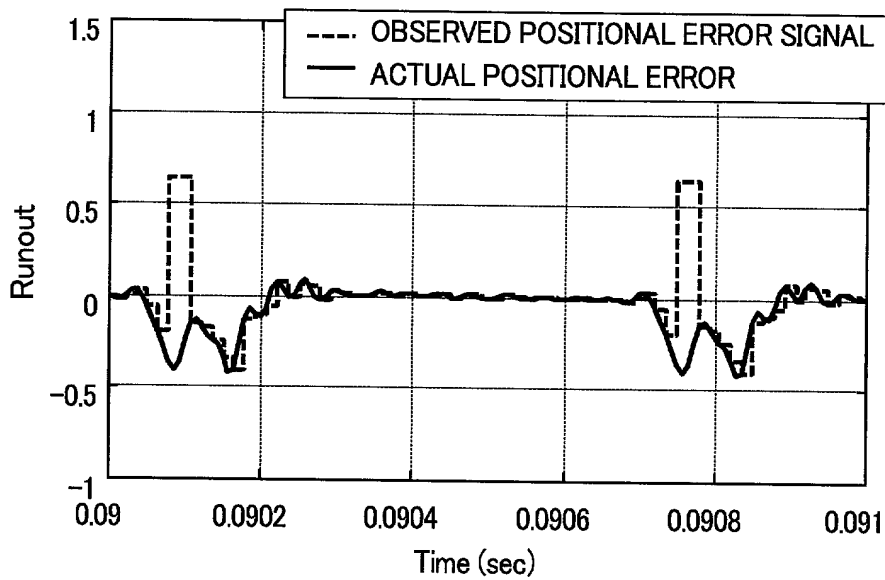


FIG. 32

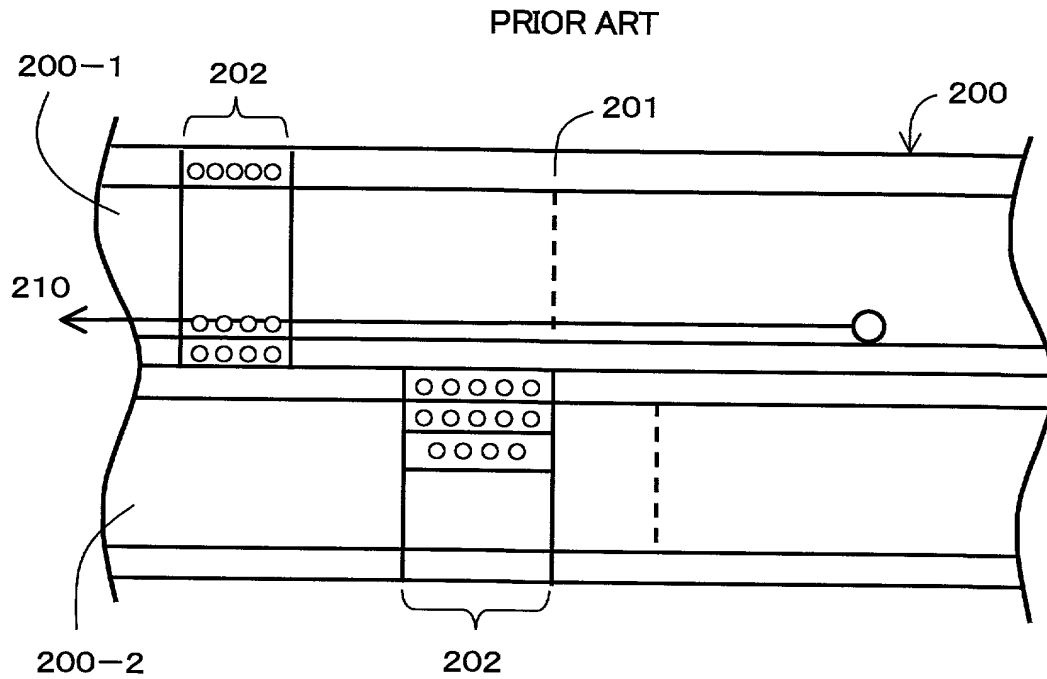


FIG. 33

